



A.D. 1862, 12th May. N^o 1418.

SPECIFICATION

OF

WILLIAM CLARK.

SMOKE-CONSUMING FIRE-GRATES.

LONDON:

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1862.



A.D. 1862, 12th MAY. N° 1418.

Smoke-consuming Fire-grates.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by William Clark at the Office of the Commissioners of Patents, with his Petition, on the 12th May 1862.
—A communication from abroad by Mr. Louis François Rojare, of 29, Boulevard St. Martin, Paris, Banker.

5 I, WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, do hereby declare the nature of the said Invention for “IMPROVEMENTS IN SMOKE-CONSUMING FIRE-GRATES,” to be as follows:—

This Invention relates to an improved smoke-consuming grate, in which
10 the fresh fuel is supplied underneath that already in ignition. For this purpose the grate is made movable, and has a rotating motion imparted to it; it is made somewhat in the form of a cylindrical cage of suitable dimensions according to the purpose required. The ends of this cage forming the grate are furnished with pivots supported in bearings, on which the entire apparatus
15 is rotated. The upper and lower parts of the grate are closed by means of gratings, which may be removed at will. Bars are placed in the grate for the purpose of distributing the incandescent coal in an uniform manner on the green fuel, so as to completely cover it. In order to make a fire, one of the gratings is placed at the bottom of the apparatus, on which the fuel is
20 laid and then lighted, and when it becomes necessary to replenish the fire, the fresh coal is placed on that which is in an incandescent state and the second grating placed at the upper part of the grate. The apparatus is then rotated on its axis, when the incandescent coal will fall on the green fuel,

Clark's Improvements in Smoke-consuming Fire-grates.

being regularly distributed throughout its surface. The grating beneath the fuel is then withdrawn, being no longer required. In this manner the smoke disengaged from the green fuel is consumed by the incandescent coal. When the coal is almost consumed a fresh supply is added, and the preceding operation repeated, and so on.

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Printers to the Queen's most Excellent Majesty. 1862.